

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Frank Lorenz et al.  
Appl. No.: PCT/DE2003/003616  
Title: COMMUNICATION TERMINAL WITH CONFIGURED BANDWIDTH EXPANSION, AND A METHOD FOR BANDWIDTH EXPANSION FOR THIS PURPOSE  
Docket No.: 112740-1075

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 37 C.F.R. 1.97, and 37 C.F.R. 1.98, Applicants request that a citation and examination of the references cited below, and on the attached PTO-1449 form be made during the course of examination of the above-identified application for United States patent. Pursuant to 37 C.F.R. 1.98, copies of all foreign patent documents and non-patent documents are enclosed.

**FOREIGN PATENT DOCUMENTS**

<u>Document No.</u>	<u>Date</u>	<u>Country</u>
GB 2 357 682	6-27-01	United Kingdom
WO 02/058088	7-25-02	PCT
DE 101 02 173	7-25-02	Germany

**OTHER DOCUMENTS**

XP 010520066 "Wideband extension of telephone speech using a hidden markov model" IEEE Workshop On Speech Coding, Proceedings, Meeting the Challenges of the New Millennium, 17, Sept. 2000, pages 133-135

German language reference DE 101 02 173 is provided with attached English abstract. Accordingly, no further statement is believed necessary.

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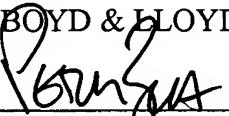
JC14 Rec'd PCT/PTO 09 MAY 2005

Applicants look forward to early and favorable consideration of this matter.

Respectfully submitted,

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Dated: May 9, 2005

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Sub account: 112470-1075  
\$0.00 0.089 DialUnits FileHomeBase  
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\$0.13 Estimated total session cost 0.316 DialUnits

File 351:Derwent WPI 1963-2005/UD,UM &UP=200529  
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DIALOG(R)File 351:Derwent WPI  
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014755748 \*\*Image available\*\*  
WPI Acc No: 2002-576452/200262  
XRPX Acc No: N02-456985  
Method for converting speech signals of different bandwidth encoded parametrically into speech signals uses encoded speech signals with a first bandwidth or a second narrow bandwidth and a broadband decoder.  
Patent Assignee: SIEMENS AG (SIEI )  
Inventor: FINGSCHEIDT T; VARGA I  
Number of Countries: 021 Number of Patents: 002  
Patent Family:  

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10102173	A1	20020725	DE 1002173	A	20010118	200262 B
WO 200258055	A1	20020725	WO 2002DE28	A	20020108	200262

Priority Applications (No Type Date): DE 1002173 A 20010118

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 10102173	A1	7		G10L-019/00	
WO 200258055	A1	G		G10L-021/02	

Designated States (National): CN, US  
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT  
LU  
MC NL PT SE TR

Abstract (Basic): DE 10102173 A1  
NOVELTY - Encoded speech signals (css) have a first broad bandwidth

(16kHz) or a second narrow bandwidth (8kHz). The encoded speech signals are decoded to match their bandwidth into speech signals (16kHz-ss) of broad bandwidth by means of a broadband decoder (WBQDC) or into speech signals (8kHz-ss) of narrow bandwidth by means of a narrow band decoder (NBQDC). During decoding parameters are determined for specifying the speech signals.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a system for converting speech signals of different bandwidth encoded parametrically into speech signals.

USE - In the Global System for Mobile Communications.  
ADVANTAGE - Bandwidth is artificially widened. Parameters are turned into this when determined during decoding.

DESCRIPTION OF DRAWING(S) - The drawing shows a simplified run diagram for a method for converting speech signals of different bandwidth encoded parametrically into speech signals.

Encoded speech signals (css)  
First broad bandwidth (16kHz)  
Second narrow bandwidth (8kHz)  
Speech signals of broad bandwidth (16kHz-ss)  
Broadband decoder (WBQDC)  
Speech signals of narrow bandwidth (8kHz-ss)  
Narrow band decoder (NBQDC)

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Title Terms: METHOD; CONVERT; SPEECH; SIGNAL; BANDWIDTH; ENCODE; PARAMETER;

SPEECH; SIGNAL; ENCODE; SPEECH; SIGNAL; FIRST; BANDWIDTH; SECOND; NARROW;

BANDWIDTH; BROADBAND; DECODE  
Derwent Class: P86; U21; W04  
International Patent Class (Main): G10L-019/00; G10L-021/02  
International Patent Class (Additional): H03M-007/30; H04B-007/26  
File Segment: EPI; EngPI  
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<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use several sheets if necessary)	Atty Docket No. <b>112740-1075</b>	Application No. <b>10/5342</b> PCT/DE2003/003616
	Applicant <b>Lorenz et al.</b>	
	Filing Date <b>PTO Form 1449</b>	Group

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner's Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	XP 010520066 "Wideband extension of telephone speech using a hidden markov model" IEEE Workshop On Speech Coding, Proceedings, Meeting the Challenges of the New Millennium, 17, Sept. 2000, pages 133-135

Examiner:	Date Considered:
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	